No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS: SHALL COME;

Monsanto Company

HOTCHS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

THE CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY THE SAID APPLICANT(S) FOR THE TERM OF TWENTY HAVE HEAD THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC TO EXPOSE THE PAYMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HILL OF EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE SUBJECT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'4599695'

In Jestimonn Macrest, I have hereunto set my hand and caused the seal of the Hunt Unrichn Protection Office to be affixed at the City of Washington, D.C. this twenty-fifth day of Jebruary, in the year two thousand and eight.

Allost:

Qenzi

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secret Warel V: Abhayer

REPRODUCE LOCALLY. Include form number and of	late on all reproduc	ctions				Form Approved - OMB No. 0581-0055					
U.S. DEPARTMEN AGRICULTURAL N SCIENCE AND TECHNOLOGY - PI	MARKETING SER	VICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.								
APPLICATION FOR PLANT VAI	RIETY PROTECTI	ON CERTIFICATE		Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).							
1. NAME OF OWNER				TEMPORARY DESIGNATION OR EXPERIMENTAL NAME STATE OF THE PROPERTY NAME Continue							
Monsanto Company					4599695						
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Cod	de, and Country)	5.	5. TELEPHONE (include area code) FOR OFFICIAL USE ONLY							
800 North Lindbergh Blvd	[·			314.694.2718 PVPO NUMBER							
E2SD St. Louis, MO 63167			6. 1	6. FAX (include area code) 2 007 0 0 1 4 3 314.694.4888 FILING DATE							
					FILING	JUAILE					
7. IF THE OWNER AMED IS NOT A "PERSON", GI ORGANIZATION (corporation, partnership, associ Limited Liability Company	ciation, etc.)	8. IF INCORPORATED, GIVE STATE OF INCORPORATION		DATE OF INCORPORATION	,	Feb. 12, 2007					
10. NAME AND ADDRESS OF OWNER REPRESE Susannah Cooper 800 North Lindbergh Blvd E2SD St. Louis, MO 63167	* *	ERVE IN THIS APPLICATION. <i>(Fir</i> s	et person	listed will receive all papers)	FEES RECEIVE D	\$ 4,382.00 DATE 2/12/2007 CERTIFICATION FEE: \$ 768.00 DATE 12/12/2007					
11. TELEPHONE (Include area code)	12. FAX (Includ	e area code)	Т	13. E-MAIL	ب						
314.694.2718		1.694.2399		susannah.g.cooper@	monsa	into.com					
14. CROP KIND (Common Name)	16. FAMILY NA		+	18. DOES THE VARIETY CONTA							
Soybean	Eal	paceae (Leguminosae)		□ YES □ NO							
15. GENUS AND SPECIES NAME OF CROP				UT OO DU TARE OUT THE ARRIVED LIDEA ARRIVE DEFERENCE AND MARKED FOR THE							
i		NETY A FIRST GENERATION HYBR	RID?			ATE THE GENETICALLY MODIFIED PLANT FOR					
Glycine max (L.) Merr.	☐ YES	☑ NO		COMMERICALIZATION							
 CHECK APPROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse) 	CHMENT SUBMI	ΠED				EED OF THIS VARIETY BE SOLD AS A CLASS 83(a) of the Plant Variety Protection Act)					
a. ☑ Exhibit A. Origin and Breeding History	of the Variety			☐ YES (If "yes", answer items 21 and 22 below) ☐ NO (If "no", go to item 23)							
b. ☑ Exhibit B. Statement of Distinctness			21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?								
c. Exhibit C. Objective Description of Varie	etv		NUMBER OF CLASSES?								
d. Exhibit D. Additional Description of the	•		IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED								
			22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LISITED AS TO								
e. 🗹 Exhibit E. Statement of the Basis of the		шр	NUMBER OF GENERATIONS?								
 f. ☑ Exhibit F. Declaration Regarding Depose g. ☑ Voucher Sample (3,000 viable untreate 		er propagated varieties, verification	☐ YES ☐ NO								
that tissue culture will be deposited and	maintained in an	approved public repository)	IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.								
g. ☑ Filing and Examination Fee (\$4,382), ma States" (Mail to the Plant Variety Protect		easurer of the United	FOUNDATION REGISTERED CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)								
23. HAS THE VARIETY (INCLUDING ANY HARVES	TED MATERIAL)	OR A HYBRID PRODUCED	24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY								
FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?	OF, TRANSFER	RED, OR USED IN THE U.S. OR	INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?								
YAN IN YES /Z NO			☑ YES □ NO								
IF YES, YOU MUST PROVIDE THE DATE OF F FOR EACH COUNTRY AND THE CIRCUMSTAI	FIRST SAVE, DISF NCES. (Please us	OSITION, TRANSFER, OR USE space indicated on reverse.)		IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNEE REFERENCE NUMBER. (Please use space indicated on reverse.)							
	seed of the varie	ly has been furnished with application	n and will be replenished upon request in accordance with such regulations as may be applicable, or								
entitled to protection under the provisions of Section	on 42 of the Plant	Variety Protection Act.	•	elieve(s) that the variety is new, dis	tinct, unifo	orm, and stable as required in Section 42, and is					
Owner(s) is (are) informed that false representati	ron nerein can jeop	pardize protection and result in penalt	mes.								
signature of owner 5- Gh	_		SIGNATURE OF OWNER								
AME (Please print or type)			NAME (F	lease print or type)							
Susannah Cooper											
APACITY OR TITLE	DATE	1	CAPACITY OR TITLE DATE								
Patent Scientist	16	-Mar-07									
	•										

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

200700148

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM 19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative vatietied as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transfereed, or used in the U.S. or other countries.)

This variety was first sold in the US in April-2007

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
US Patent Pending. Patent Application No. 11/624,120

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A Origin and Breeding History

Parentage: A3469/DKB26-52

Table 1: Breeding History

Generation	Year	Description
Cross	May-1999	The cross was made at Ames, IA.
\mathbf{F}_1	Oct-1999	Plants were grown at Isabella, Puerto Rico and advanced using modified single seed descent.
F ₂	Feb-2000	Plants were grown at Isabella, Puerto Rico and advanced using modified single seed descent.
F ₃	May-2000	Bulk populations were grown at Ames, IA and advanced using modified single seed descent.
F ₄	May-2001	F ₃ derived F ₄ were grown at Ames, IA in progeny row and the variety 4599695 was selected based on the agronomic characteristics, including, but not limited to, general plant health, lodging, early emergence, and general disease resistance, including PRR, SCN, BSR, SDS, stem canker, etc.
F_5	May-2002	Preliminary yield tests were conducted.

Variety 4599695 was observed to be uniform and stable for the characteristics described within this application based on our observations since May-2001 and, henceforth, to present. No variants were observed during this time.

Variety 4599695 has continued to be grown in yield tests for comparison against other varieties to determine how it would be used in our marketing program (Table 2).

Table 2: Yield trials

	Number of
Year	Locations
2002	5
2003	11
2004	23

Exhibit B Statement of Distinctness of

4599695

To our knowledge, the soybean variety that most resembles 4599695 is DKB26-52. 4599695 and DKB26-52 differ in the following trait(s):

Trait	4599695	DKB26-52
Phytophthora root rot	Rsp1-c	Rsp1-a
Resistance Allele	<u>-</u>	•

EXHIBIT

According to the Paperwork reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE

C AGRICULTURAL MARKETING SERVICE

SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Sovbean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
Monsanto Company	CAK2704D0R	4599695
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Countr Attn: Susannah Cooper 300 North Lindbergh Blvd. Mail Zone: E2SD St. Louis, MO 63167	ry)	PVP NUMBER # 2 0 0 7 0 0 1 4 8
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes thd varietal Place a zero in the first box (e.g., 0 9 9 9 or 0 9 9 9 9 or 0 9 9 9 9 or 0 9 9 9 9 0 9 9 9 9 9 9 9 9 9 9 9 9 9) when number is either 99 or less or 9 or less respectitive data should be determined from varieties entered in a plant colors; designate system used	the same trial. Royal Horticultural Society of
A. MORPHOLOGY: Seed Shape: 2 1 = Spherical (L/W, L/T, and T/W ratios ≤1.2) 3 = Elongate (L/W ratios > 1.2; T/W ratios ≤1.2)	2 = Spherical-Flattened (L/W ratios> 1.2; L/T ratios ≤ 1.2) 4 = Elongate-Flattened (L/T ratios ≥ 1.2; L/W ratios ≥ 1.2	
Seed Coat Color: * 1 1 = Yellow 2 = Green 3 = Brown		
Seed Coat Luster: 1 1 = Dull 2 = Shiny Seed Size:		

2 = Yellow

7 = Other (Please specify)

13.3

Hilum Color:

1 = Buff

grams/100 seeds (rounded to the nearest decimal (00.0))

3 = Brown

4 = Gray

5 = Imperfect Black

6 = Black

A. MORPHOLOGY: (continued)

#200700148

Cotyledon Color:

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

0 1 = Low

Hypocotyl Color:

1 = Green 2 = Green with Bronze ('Evans' or 'Davis') Band below cotyledons

3 = Light Purple below Cotyledons ('Woodworth' or 'Tracy') ('Beeson' or 'Pickett 71') 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

3 1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please specify)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

2 | 1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

1 = Determinate

2 = Semi-determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

5

1 = 0006 = III

2 = 00

3 = 0

4 = 1

5 = II

11 = VIII

7 = IV

V = 813 = X 9 = VI

10 = VII15 = XII

Maturity Subgroup:

Please enter a value from 0-9

B. DISEASE REACTIONS: 0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

- Brown Spot (Septoria glycines Hemmi)
- Frogeye Leaf Spot (Cercospora sojina Hara)
- race 1
- race 3
- race 5
- 0 race 7

- race 2
- race 4
- race 6
- Important: Any other races tested (Please specify)

		···								***										Exhil	olt C (S	oybear
В. [DIS	EASE RE	ACTI	IONS: ((cont	inue	d)						#	2 (0	7	' 0	0		4	8	
	0	Target Spot	(Cory	nespora	cass	iicola	a (Berk. & (Curt.) We	i)												
	0	Downy Milde	ew (<i>Pe</i>	eronspor	a trifo	olioru	<i>ım</i> var. <i>ma</i>	nchı	ırica	(Naum.) S	Syd. E	=x (Gäum)									
	0	Powdery Mil	dew (Microsph	haera	diffu	<i>ısa</i> Cke. &	Pk.)														
	0	Brown Stem	Rot (Phialoph	ora g	grega	ata (Allingto	n &	Char	nberlain)	W. G	am	າຣ.)									
*	0	Stem Canke	r (<i>Dia</i> ,	porthe pi	hased	oloru	m (Cke. &	EII.)	Saco	. var. cau	ulivora	a A	thow & Cald	well)								
*	0	Pod and Ste	m Blig	ght (<i>Diap</i>	orthe	pha	seolorum ((Cke	. & E	II.) (Sacc.	var.	soj	iae (Lehman)	Weh	ım.)							
į	0	Purple Seed	Stain	(Cercos	pora	kiku	chii (T. Ma	tsu.	& Toi	moyasu) (Garde	ene	er)									
ļ	0	Rhizoctonia	Root I	Rot (<i>Rhiz</i>	zocto	nia s	<i>olani</i> Kühn	1)														
. [0,	Asian Soybe	an Ru	ıst (<i>Phak</i>	cospo	ora pa	achyrhizi S	ydw.	(a.k	.a. <i>Phako</i>	spora	a pa	achyrhizia Sy	/dw.))							
		Other rust (P		,			·			 .												
Spec	cify '	the gene(s)	coding	g for read	ction t	to Ph	nytophthora	a Ro	ot Ro	ot.												
L	0	<i>Rps1</i> (Williams)	2	Rps1-c (Arksoy))	0	<i>Rps1-k</i> (Kingwa)			<i>Rps3-b</i> [Pl 172.90	₀₁₎ [0]	<i>Rps5</i> (Pl 91.160)		Rps (Ne		nisa	ya,	ОХ	939	, OX	940
	0	<i>Rps1-a</i> (Mukden)	0	<i>Rps1-d</i> (PI 103.	091)	0	<i>Rps2</i> (CNS)			<i>Rps3-c</i> Pl 340.0₄	46) [(0	<i>Rps6</i> (Altona)									
	0	<i>Rps1-b</i> (Sanga)	0	<i>Rps1-e</i> (Pl 172.	907)	0	<i>Rps3-a</i> (PI 171.4	12)		ମ <i>ps4</i> Pl 86.050	_{D)} [0	<i>Rps7</i> (Harosoy)		-							
Phyto	ophi -	thora Root R	Rot (<i>PI</i>	hytophth	ora s	ojae	(Kaufmanı	ъ& С	erde	emann))												
2] ra	ace 1	0 r	ace 9		2	race 17		o ra	ce 25	0	r	ace 32	0	race	∍ 39	9					
0	ra	ace 2	0 r	ace 10		0 r	ace 18	[] ra	ce 26	0	r	ace 33	0	race	e 40	0					
2	≟	ace 3		ace 11		<u>0</u> r	ace 19	Ľ) ra	ce 27	0	r	ace 34	0	race	e 4	1					
0	=	ace 4		ace 12		=	ace 20	<u>[</u>) ra	ce 28	0	r	ace 35	0	race	e 42	2					
0	-	ace 5		ace 14	-	=	ace 21	Ę	╡	ce 29	0	l r	ace 36	0	race) 40	3					
0	7	ace 6	 	ace 14	<u> </u>	=	ace 22	Ę) ra	ce 30	0	r	ace 35	0	race) 44	4					
2	=	ace 7		ace 15	<u></u>	=	ace 23	[=	ce 31	0	l	ace 38	ш	race							
0] ra	ace 8	O ra	ace 16	Ľ	<u>0</u> r	ace 24	L	Im	portant: /	Any o	the	er races teste	d (Pl	eas	e s	peci	fy) .				
0	В	ud Blight (To	bacc	o Ringsp	ot Vii	rus)																
0	Y	ellow Mosaid	c (Bea	ın Yellow	/ Mos	saic \	/irus)															
* 0	j C	owpea Mosa	aic (Co	owpea C	hloro	tic V	irus)															
0	P	od Mottle (B	ean P	od Mottle	e Viru	us)																
* 0] s	eed Mottle (Soybe	an Mosa	aic Vii	rus)																
Vema	atod	le															·					
Soybe	ean	Cyst Nemat	ode (<i>f</i>	Heterode	era alı	vcine	es Ichinohe) }														

Important: Any other races tested (Please specify)

ST-470-02 (02-06) designed by the Plant Variety Protection Office using Microsoft Word 2003.

race 4

race 6

race 9

race 14

race 1

race 2

race 3

#200700148 **B. DISEASE REACTIONS**: (continued) Lance Nematode (Hoplolaimus colxmbus Sher) Southern Root Knot Nematode (Meliodogyne incognita (Kofoid & White) Chitwood) Northern Root Knot Nematode (Meliodogyne hapla Chitwood) Peanut Root Knot Nematode (Meliodogyne arenaria (Neal) Chitwood) 0 Reniform Nematode (Rotylenchus reniformus Linwood & Olivera) Javanese Nematode (Meliodogyne javanica (Treub) Chitwood) Important: Other Nematodes tested (Please specify) C. PHYSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = TolerantIron Chlorosis on Calcareous Soil Phosphorus Important: Other (Please specify) Boron Aluminum Salt Drought D. INSECT REACTIONS: 0 = Not Tested 1 = Susceptible 3 = Tolerant 2 = Resistant Mexican Bean Beetle (Epilachna varivestis Mulsant) Soybean Aphid (Aphis glycines Matsamura) Potato Leaf Hopper (Empoasca fabae (Harris)) Important: Other (Please specify) _ E. HERBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

0	Bentazone
0	Sulfonylurea
2	Glyphosate
0	Glufosinate
0	Pendimethalin
	Important: Other (Please specify)

0 Metribuzin

F. TRANSGENIC COMPOSITION:

#200700148

Has the development of the subject variety included the insertion of genetic material from an organism, other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests*. Use additional pages if necessary.

1. Please state the vector's name:

2. Please state the vector components:

3. Please describe the genetic material successfully transferred into the subject variety:

4. Please describe the insertion protocol:

* A literature citation(s) explaining the your information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney *U*-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

	Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
	Application Variety Year/Location 1								
	Year/Location 2								
ŀ	Cited Most Similar Variety								
	Year/Location 1							•	
	Year/Location 2								

I. COMMENTS:

#200700148

Monsanto Company PVP Application - 4599695

Exhibit D Additional Description of Invention

4599695

4599695 is a(n) mid- maturity group II variety with resistance to Roundup Ready[®] herbicide. It has superior yields to lines of similar maturity and has excellent agronomic characteristics. In tests, it has beaten AG2705 by 108% overall in yield, winning 50 of 59 locations. It is adapted to mid- maturity group II growing areas.

REPRODUCE LOCALLY. Include form number and edition date on a	Il reproductions.	ORM APPROVED-OMB No. 0581-0055					
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).						
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME					
Monsanto Company	OR EXPERIMENTAL NUMBER CAK2704D0R	4599695					
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)						
800 North Lindbergh	314.694.2718	6. FAX (Include area code) 314.694.2399					
E2SD	7. PVPO NUMBER						
St. Louis, MO 63167		0 0 1 4 8					
8. Does the applicant own all rights to the variety? Mark an "X" in the 9. Is the applicant (individual or company) a U.S. national or a U.S. to							
10. Is the applicant the original owner?	NO If no, please answer one	of the following:					
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nationa NO If no, give name of count						
b. If the original rights to variety were owned by a company(ies)	, is (are) the original owner(s) a U.S. bas						
11. Additional Explanation on ownership (Trace ownership from origin	nal breeder to current owner. Use the re	verse for extra space if needed):					
PLEASE NOTE:		*****					
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:						
 If the rights to the variety are owned by the original breeder, that pronational of a country which affords similar protection to nationals or 	erson must be a U.S. national, national of f the U.S. for the same genus and specie	f a UPOV member country, or es.					
If the rights to the variety are owner by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.	red the original breeder(s), the company country which affords similar protection to	must be U.S. based, owned by nationals of the U.S. for the same					
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must me	eet one of the above criteria.					
The original breeder/owner may be the individual or company who dir Act for definitions.	rected the final breeding. See Section 4	(a)(2) of the Plant Variety Protection					
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055. including the time for reviewing the instructions, searching existing data sources, gathering as	The time required to complete this information collect nd maintaining the data needed, and completing and i	ion is estimated to average 0.1 hour per response, eviewing the collection of information.					
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and a marital or family status, political beliefs, parental status, or protected genetic information. (Ni communication of program information (Braille, large print, audiotape, etc.) should contact Us							

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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EPRODUCE LOCALLY, Include form number and date on all reproductions

Form Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).'

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

DEGLATATION (MAAITING DEL CONT										
NAME OF OWNER (S) Monsanto Company	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 800 N Lindbergh Blvd, E2SD	TEMPORARY OR EXPERIMENTAL DESIGNATION CAK2704D0R								
	St. Louis, MO 63167	VARIETY NAME 4599695								
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR ORGICAL USE ONLY								
Susannah Cooper	800 N Lindbergh Blvd, E2SD	PVPO NUMBER								
	St. Louis, MO 63167	#200700148								

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished at needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature

Data